

## ***SECTION 7***

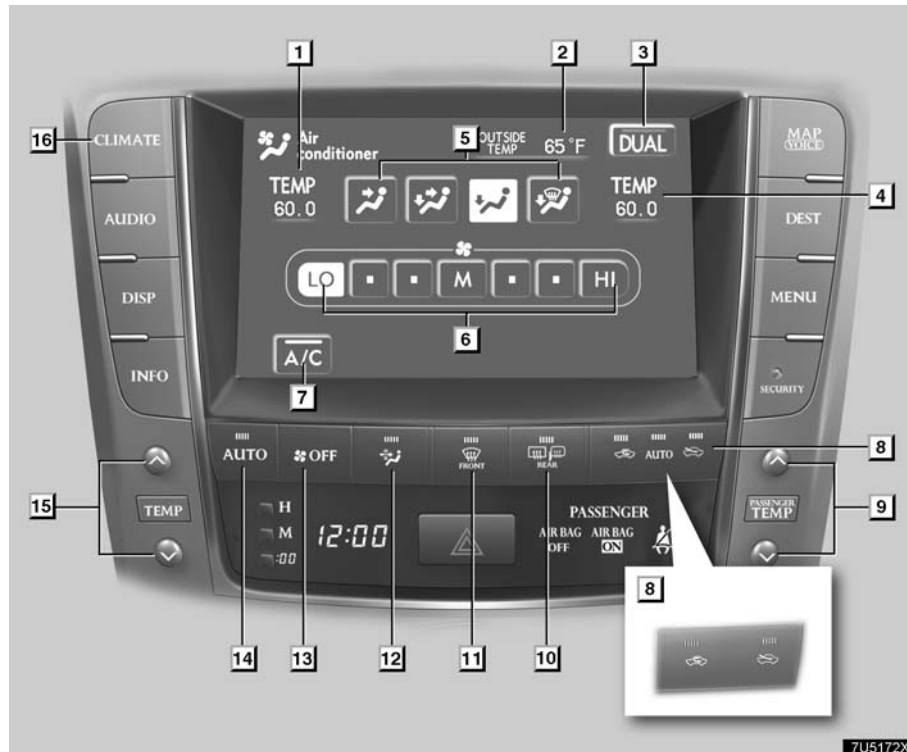
### **AIR CONDITIONING**

- [Automatic air conditioning controls](#)

250

### Automatic air conditioning controls

Operations such as changing the air outlets or fan speed are carried out on the touch screen. To display the air conditioning touch screen, push the “**CLIMATE**” button.

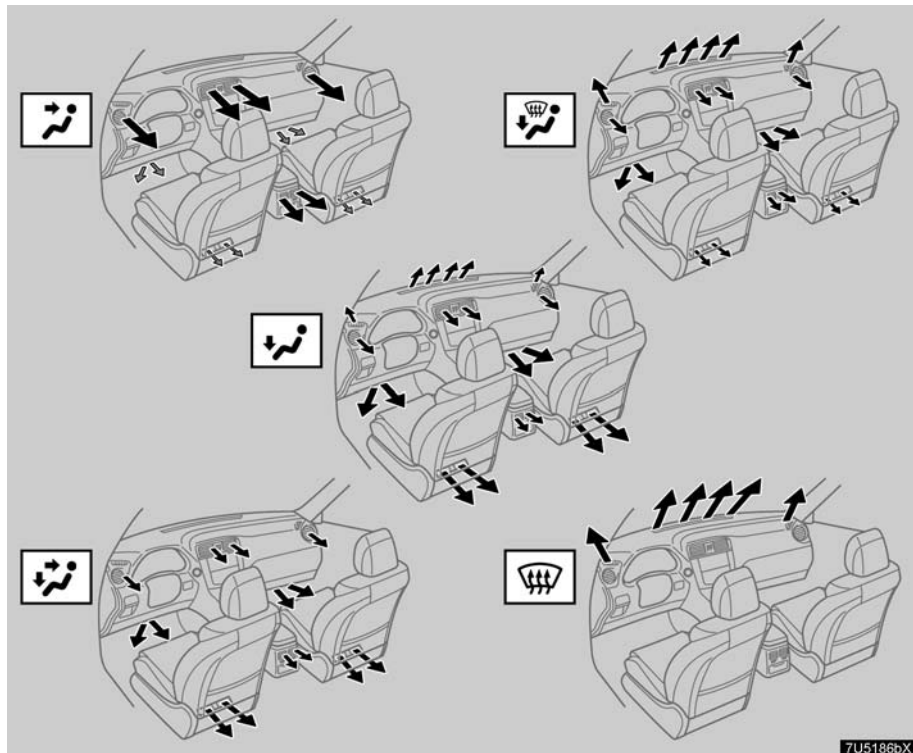


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|--|--|

- 14 "AUTO" button ..... 254
- 15 "TEMP" buttons  
 (Driver side temperature control button) (At the independent mode that display shows "DUAL"; mainly or driver and secondarily for front passenger)  
 (At the linked mode that display does not show "DUAL"; for driver)  
 ..... 255
- 16 "CLIMATE" button  
 (Air conditioning operation screen display button) ..... 253

## AIR CONDITIONING

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► Air flow selection

➡ Automatic air flow mode only

**The automatic air conditioning automatically maintains the set temperature.**

In the automatic operation mode, the air conditioning selects the most suitable fan speed, air flow, air intake and on-off the air conditioning according to the temperature.

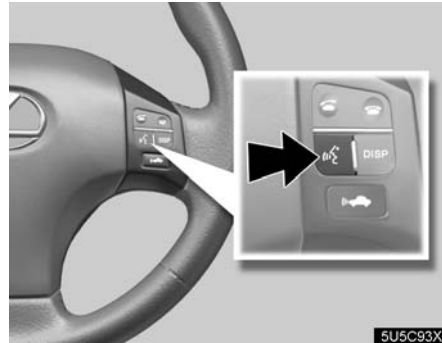
The “ENGINE START STOP” switch must be in IGNITION ON mode.



**“CLIMATE”**: Push this button to display touch-screen buttons for automatic air conditioning controls.

### **NOTICE**

***To prevent the battery from being discharged, do not leave the air conditioning on longer than necessary when the engine is not running.***

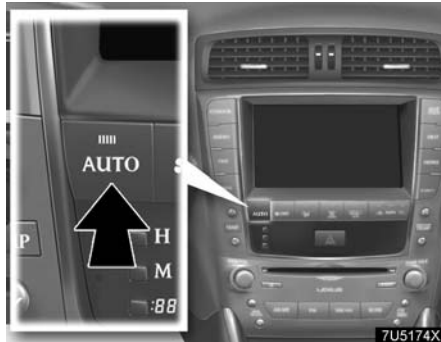


**By pushing the switch above, you can operate the speech command system.**

For the operation of the speech command system and the command, see pages 174 and 177.

### (a) Climate control

#### SETTING OPERATION – automatic control



##### 1. Push the “AUTO” button.

An indicator light will illuminate to show that the automatic operation mode has been selected.

Air flow quantity, switching of the diffusers, on–off of the air conditioning, and switching of the air intake between RECIRCULATED AIR and OUTSIDE AIR are automatically adjusted. The operation status is shown by each indicator.

When one of the manual control buttons is depressed while operating in automatic mode, the mode relevant to the depressed button is set. Other conditions continue to be adjusted automatically.

Push the “OFF” button to turn the fan off.

#### INFORMATION

- This automatic control has additional function as described below, when the “AUTO” button is pushed.

*The fan speed is stopped for a little while until warm air preparation, when outside temperature is cold like a winter season in the “Floor”, “Bi–level” or “Floor/Windshield” air flow mode. If quick removal for exterior frost, fog and inside fog on the windshield is desired, use the high fan speed setting after the “Windshield” air flow mode has been selected.*

*The fan speed is stopped few seconds until cool air preparation, when outside temperature is hot like a summer season in the “Panel” or “Bi–level” air flow mode.*

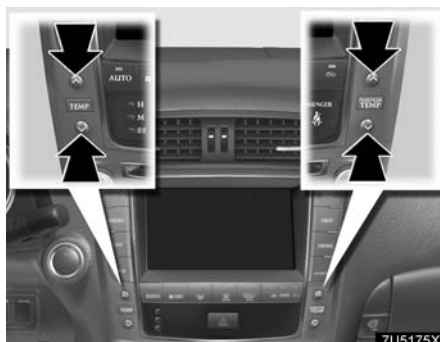
- The internal circulation may be applied for maximum cooling in the automatic operation mode, when outside temperature is hot like a summer season.

*If fresh outside air is desired into the vehicle, push the air intake control button to select the OUTSIDE AIR mode.*

- The “Floor/Windshield” air flow mode may be applied automatically, if the outside temperature is lowered down to below 0°C (32°F).

*This is not malfunction. The “Floor/Windshield” air flow mode turns on the defogging and defrosting function with the purpose of cleaning your front view for safe driving.*

*If the “Floor” air flow mode is desired with the main purpose of heating, “Floor” air flow mode can be selected manually by touching the air flow control button.*



**2. Use the “TEMP” or “PASSENGER TEMP” button to set the desired vehicle interior temperature.**

The “TEMP” or “PASSENGER TEMP” (“^”, “v”) buttons are used to set the desired interior temperature. The interior temperature will be controlled on the driver and passenger side simultaneously or individually.

To increase the interior temperature, push the “^” button, to decrease it, push the “v” button.

**If quick heating or cooling is desired —**

“LO” appears when you hold it until maximum cooling (decrease), and “HI” appears when you hold it until maximum warming (increase).

**“TEMP” button —** Changes the temperature on the driver and passenger sides simultaneously or the driver side only.

**“PASSENGER TEMP” button —** Changes the temperature settings separate from the driver side.



**“DUAL” —**

This button is used to set the temperatures independently for the driver's seat and front passenger seat.

Touching the button changes from the independent mode to the linked mode.

**Independent mode:** Temperatures can be set independently for the driver's seat and front passenger's seat. The indicator will come on to show that the independent mode has been selected.

**Linked mode:** The same temperature is set for the driver's seat and front passenger's seat. The indicator will come off to show that the simultaneous temperature setting mode has been selected.

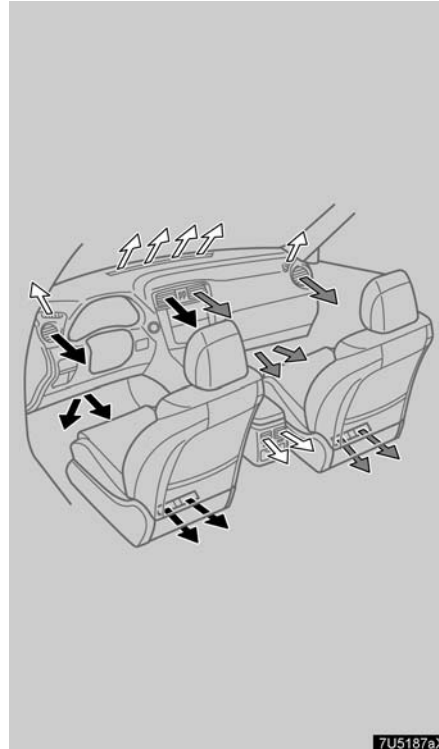
When the temperature for the front passenger's seat is changed in linked mode, the mode is changed automatically to independent mode.

### INFORMATION

**Knowledge for the two-temperature selector operation:**

**This air conditioning system has two independent temperature selectors: left and right (for the use of driver and front passenger respectively).**

- There are cases where the temperature of the airflow may not accurately correlate on the driver and front passenger side according to circumstances, even if the left and right temperature selectors are set at the same temperature. If this situation occurs, use the fine tune operation to adjust the air temperature on one side.
- There are cases where one or both of the airflow temperatures may not accurately correlate with the set temperature according to circumstances, when the airflow temperature settings on the left and right are substantially different. For example, if the left controller is set at central or neutral temperature while the right one is set at maximum heating or maximum cooling, or vice versa. If this situation occurs, use the fine tune operation to adjust the air temperature on each side.



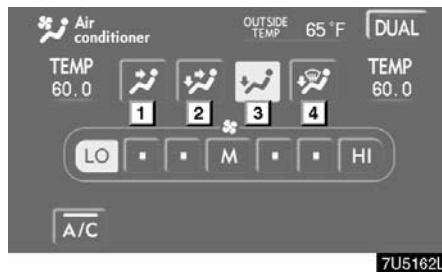
- ➡ Driver side setting air flow
- ➡ Passenger side setting air flow
- ➡ Mixed air flow



### SETTING OPERATION — manual control

When one of the manual control touch-screen buttons is depressed while operating in automatic mode, the operation corresponding to the depressed button is set. Other conditions continue to be adjusted automatically.

#### If manual air flow selection is desired —



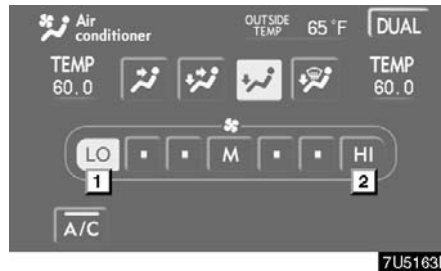
The outlets from which air is delivered can be selected manually by touching the touch-screen button. The function of each mode is as follows:

- 1 Panel** — Air flows mainly from the instrument panel vents and rear vents.
- 2 Bi-level** — Air flows from both the floor vents, instrument panel vents and rear vents.  
When you set the temperature selector setting at about the middle in automatic operation, warm air flows out of the floor vents and relatively low-temperature air flows out of the instrument panel vents and rear vents.
- 3 Floor** — Air flows mainly from the floor vents and rear vents.
- 4 Floor/windshield** — Air flows mainly from the floor vents, windshield vents and rear vents.

Take in the fresh air with selecting the OUTSIDE AIR mode by the air intake control button.

The selected mode is highlighted.

#### If manual fan speed control is desired —



- 1 Fan speed at low**
- 2 Fan speed at high**

The fan speed can be set to your desired speed by touching the appropriate air flow control button.

The higher the fan speed is, the more air is delivered.

Pushing the “OFF” button turns the fan off.

To remove the exterior windshield frost and interior windshield fog, use the high speed setting.

The selected mode is highlighted.

## AIR CONDITIONING

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**If manual switching of air intake is desired —**



Each time you push the air intake control button, the mode changes in order from the RECIRCULATED AIR mode to AUTO-MATIC mode to OUTSIDE AIR mode, then back to the RECIRCULATED AIR mode. Each indicator light shows which mode is now selected.

- 1 RECIRCULATED AIR mode** — If quick circulation of cooled air is desired, select this mode.
- 2 EXHAUST GAS AUTOMATIC mode (on some models)** — If the outside air contains harmful substances like exhaust gas (i.e., when the vehicle running just in front of your vehicle accelerates rapidly), the system changes automatically from the OUTSIDE AIR mode (with indicators **2** and **3** on) to the RECIRCULATED AIR mode (with indicators **1** and **2** on).
- 3 OUTSIDE AIR mode** — The system will take fresh outside air into the vehicle.

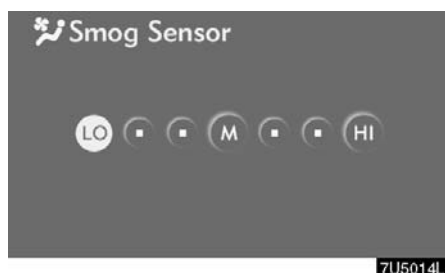
Turning off the air conditioning manually will cancel the EXHAUST GAS AUTOMATIC mode. If you select the "AUTO" mode during fan operating, the air conditioning turns on and the EXHAUST GAS AUTOMATIC mode will operate.

For normal use, it is best to keep the air intake control button set to OUTSIDE AIR mode. If recirculated air is used during heating, the windows will fog up more easily.

To change the sensitivity of the sensor switching between the RECIRCULATED AIR and OUTSIDE AIR in the AUTOMATIC mode, push the air intake control button and hold it for a few seconds.

The “Smog Sensor” screen will be displayed.

The sensitivity of the sensor can be adjusted only while the vehicle has been stopped.

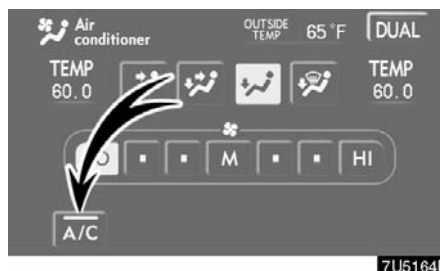


The sensitivity of the touch-screen button is set to be higher toward “HI” and lower toward “LO”.

**Touch the desired button on the screen.**

When you push the “AUTO” button, the above screen goes off.

If manual on-off of the air conditioning is desired —



Touch “A/C” to turn the air conditioning on and touch it again to turn the air conditioning off. If you turn off the air conditioning manually, the EXHAUST GAS AUTOMATIC mode will be cancelled.

If the outside temperature is below 0°C (32°F), the air conditioning will turn off automatically. At this time, the indicator on “A/C” is off and the EXHAUST GAS AUTOMATIC indicator light remains on. However, the EXHAUST GAS AUTOMATIC mode does not operate. When the air conditioning turns on as with the raised temperature, the EXHAUST GAS AUTOMATIC mode resumes.

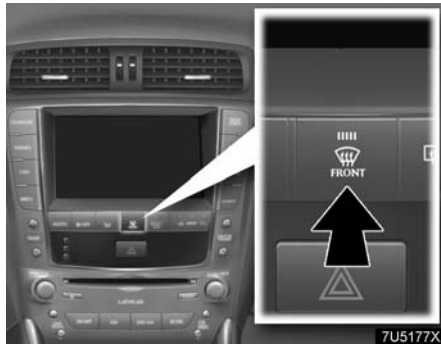
If the system is used for ventilation, heating in dry weather or removing frost or exterior fog on the windshield, turn the air conditioning off once it is no longer required. This will improve fuel economy. The air conditioning can be used for year-round automatic temperature control including cooling and dehumidifying operation.

If the air conditioning compressor does not operate, the indicator of “A/C” will blink. If the indicator of “A/C” blinks even when “A/C” is touched again, have the compressor checked by your Lexus dealer.

## AIR CONDITIONING

### (b) Windshield defogging and defrosting

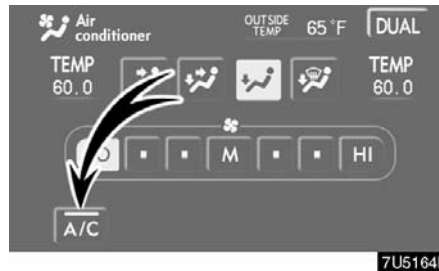
To remove interior fog on the windshield —



Push the windshield air flow button.

To remove frost or exterior fog on the windshield—

1. Push the “TEMP” (“^”) button to set the “HI”.
2. Push the windshield air flow button.
3. Touch fan speed control touch-screen button on the right side to obtain a maximum air flow.



4. Leave “A/C” off.

When the windshield air flow button is pushed while operating in automatic mode, the air conditioning is set to operate.

If you push the windshield air flow button once again while in the windshield air flow mode, the mode then returns to the last mode used.

### CAUTION

To prevent the windshield from fogging up, do not use the windshield air flow button during cooled air operation in extremely humid weather. The difference between the temperature of the outside air and that of the windshield could cause the outer surface of the windshield to fog up blocking your vision.

**(c) Rear window and outside rear view mirror defogging**



**To turn the electric rear window and outside rear view mirror defogger on, push the button above.**

The "ENGINE START STOP" switch must be in IGNITION ON mode.

The thin heater wires on the inside of the rear window and the heater panels in the outside rear view mirrors will quickly clear the surface.

Keep your hands off the mirror faces when the system is on.

The indicator light is on when the defogger is operating.

The system will automatically shut off when the defogger has operated about 15 minutes.

If further defrosting or defogging is desired, simply actuate the switch again. When the surface has cleared, push the button once again to turn the defogger off. Continuous use may cause the battery to discharge, especially during stop-and-go driving. The defogger is not designed to dry rain water or to melt snow.

If the outside rear view mirrors are heavily coated with ice, use a spray de-icer before operating the system.

**NOTICE**

- *When cleaning the inside of the rear window, be careful not to scratch or damage the heater wires or connectors.*
- *To prevent the battery from being discharged, turn the switch off when the engine is not running.*

**CAUTION**

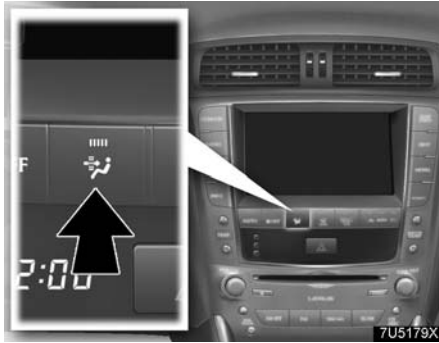
**When the outside rear view mirror defoggers are on, do not touch the outside surface of the rear view mirror as it can become very hot and burn you.**

## AIR CONDITIONING

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### (d) Micro dust and pollen filter

This vehicle is equipped with a micro dust and pollen filter mode. When this mode is activated, air from the vents will remove pollen on the driver and passengers.



**Push the micro dust and pollen filter button.**

The indicator light and “A/C” come on. The RECIRCULATED AIR mode is also turned on at normal outside temperature. Air is delivered from the instrument panel vents to the areas near the driver and passengers to remove pollen on them.

When the interior is purified sufficiently with fresh air (after about 3 minutes at normal outside temperature and about 1 minute at low outside temperature), this mode will be turned off automatically and the indicator light will go out.

When the micro dust and pollen filter is activated, this mode will be turned off by pushing the micro dust and pollen filter button again. The indicator light will also go out.

### INFORMATION

- *Use this mode to remove pollen quickly carried by the driver or passengers or through the window in the days with much pollen.*
- *Use and push the windshield air flow button to remove the fog on the windshield in rainy days.*
- *Fresh air is delivered even when the micro dust and pollen filter button is turned off.*

(e) Outside temperature display



**Outside temperature is displayed on the screen.**

The displayed temperature ranges from  $-40^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$ ) up to  $50^{\circ}\text{C}$  ( $122^{\circ}\text{F}$ ).

If the temperature shows “–” or “E”, take your vehicle to your Lexus dealer.

In the following situations, the correct outside temperature may not be displayed, or the display may take longer than normal to change.

- When stopped, or driving at low speeds (less than 12 mph [20 km/h])
- When the outside temperature has changed suddenly (at the entrance/exit of a garage, tunnel, etc.)

(f) Operating tips

- To help cool down the interior after parking in the hot sun, drive for the first few minutes with the windows open. After the excess heat has blown away, close the windows.
- Make sure the air inlet grilles in front of the windshield are not blocked by leaves or other obstructions.
- If air flow control is not satisfactory, check the dashboard vents and rear vents. (See “(g) Adjusting the position of and opening and closing the air outlets” on page 266.)
- Keep the area under the front seats clear to allow air to circulate throughout the vehicle.
- On cold days, set the fan speed to high for a minute to help clear the intake ducts of snow or moisture. This can reduce the amount of fogging on the windows.
- When driving on dusty roads, close all windows. If dust thrown up by the vehicle is still drawn into the vehicle after closing the windows, it is recommended that the air intake control button be set to the OUTSIDE AIR mode to take in the fresh air and set the fan speed selector to any setting except OFF.
- If following another vehicle on a dusty road, or driving in windy and dusty conditions, it is recommended that the air intake control button be temporarily pressed in to the RECIRCULATED AIR mode, which will close off the outside passage and prevent outside air and dust from entering the vehicle interior.

## AIR CONDITIONING

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### Heating

For best results, set controls to:

For automatic operation —

**Push in the “AUTO” button.**  
**Temperature** — To the desired temperature  
**Air intake** — OUTSIDE AIR  
**Air conditioning** — OFF

For manual operation —

**Fan speed** — To the desired fan speed  
**Temperature** — Towards high temperature  
**Air intake** — OUTSIDE AIR  
**Air flow** — FLOOR  
**Air conditioning** — OFF

- For quick heating, select RECIRCULATED AIR mode for a few minutes. To keep the windows from fogging, select OUTSIDE AIR mode after the vehicle interior has been warmed.
- Touch “A/C” on for dehumidified heating.
- Choose floor/windshield air flow to heat the vehicle interior while defrosting or defogging the windshield.

### Air conditioning

For best results, set controls to:

For automatic operation —

**Push in the “AUTO” button.**  
**Temperature** — To the desired temperature  
**Air intake** — OUTSIDE AIR  
**Air conditioning** — ON

For manual operation —

**Fan speed** — To the desired fan speed  
**Temperature** — Towards low temperature  
**Air intake** — OUTSIDE AIR  
**Air flow** — PANEL  
**Air conditioning** — ON

- For quick cooling, select RECIRCULATED AIR mode for a few minutes.

### Ventilation

For best results, set controls to:

For automatic operation —

**Push in the “AUTO” button.**  
**Temperature** — Towards low temperature  
**Air intake** — OUTSIDE AIR  
**Air conditioning** — OFF

For manual operation —

**Fan speed** — To the desired fan speed  
**Temperature** — Towards low temperature  
**Air intake** — OUTSIDE AIR  
**Air flow** — PANEL  
**Air conditioning** — OFF



### Defogging and defrosting

#### – The inside of the windshield

For best results, set controls to:

For automatic operation —

**Temperature** — Towards high temperature to heat; low temperature to cool  
**Air intake** — OUTSIDE AIR  
**Air flow** — WINDSHIELD

For manual operation —

**Fan speed** — To the desired fan speed  
**Temperature** — Towards high temperature to heat; low temperature to cool  
**Air intake** — OUTSIDE AIR  
**Air flow** — WINDSHIELD

When the windshield air flow button is pushed, air flows mainly from the windshield vents and turns on the defogging function with the purpose of clearing the front view.

Pushing this button once again returns the air flow mode to the last one used.

This button allows the air intake to select OUTSIDE AIR mode automatically. This is to clean up the front view more quickly. If you want to return the setting to RECIRCULATED AIR mode, push the air intake control button once again.

Touch “A/C” for dehumidified heating or cooling. This setting clears the front view more quickly.

- On humid days, do not blow cold air on the windshield – the difference between the outside and inside temperatures could make the fogging worse.

#### – The outside of the windshield

For best results, set controls to:

For automatic operation —

**Temperature** — Towards high temperature  
**Air intake** — OUTSIDE AIR  
**Air flow** — WINDSHIELD

For manual operation —

**Fan speed** — To the desired fan speed  
**Temperature** — Towards high temperature  
**Air intake** — OUTSIDE AIR  
**Air flow** — WINDSHIELD

When the windshield air flow button is pushed, air flows mainly from the windshield vents and turns on the defogging function with the purpose of clearing the front view.

Pushing this button once again returns the air flow mode to the last one used.

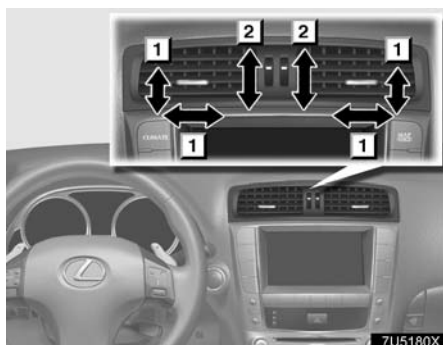
This button allows the air intake to select OUTSIDE AIR mode automatically. This is to clean up the front view more quickly. If you want to return the setting to RECIRCULATED AIR mode, push the air intake control button once again.

Touch “A/C” for dehumidified heating or cooling. This setting clears the front view more quickly.

- To heat the vehicle interior while defrosting the windshield, choose floor/windshield air flow.

## AIR CONDITIONING

### (g) Adjusting the position of and opening and closing the air outlets



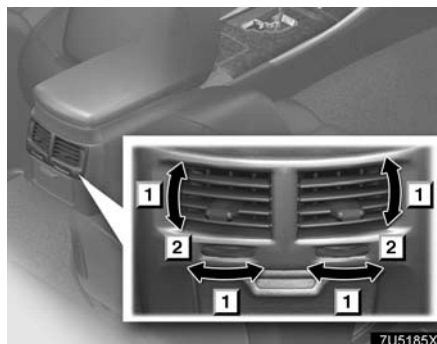
#### ► Center outlets

- 1 Adjusting air flow direction
- 2 Open or close the vent



#### ► Side outlets

- 1 Adjusting air flow direction
- 2 Open or close the vent



#### ► Rear seat outlets

- 1 Adjusting air flow direction
- 2 Adjusting air flow direction or, open or close the vent

If air flow control is not satisfactory, check the center vents, side vents and rear vents. They may be opened or closed as shown.

When outside temperature is cold like a winter season, air flow temperature from the center vents, side vents and rear vents may not be warmed up enough for a while until that the engine coolant temperature becomes high enough.

If air flow from the center vents, side vents and rear vents is not satisfactory, air flow direction can be changed manually by adjusting the vents fin direction or the vents may be closed.

### (h) Checking and replacing the air conditioning filter

The air conditioning filter must be cleaned or changed regularly to maintain air conditioning efficiency.

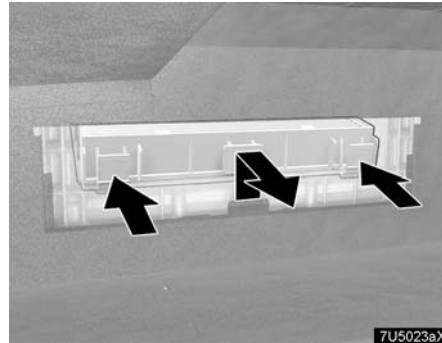
#### ● Removal method

#### 1. Set the air conditioning system to **RECIRCULATED AIR** mode.

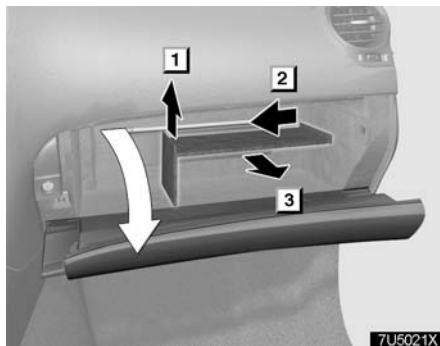
The air conditioning filter case cannot be removed in the **OUTSIDE AIR** mode.

#### 2. Turn the “ENGINE START STOP” switch off.

When you replace the filter, be sure to turn off the fan.



#### 5. Remove the filter case.



#### 3. Open the glove box. Lift and remove the partition.

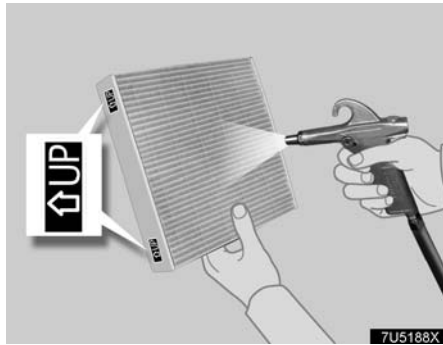


#### 4. Remove the filter cover.

## AIR CONDITIONING

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- **Cleaning method**

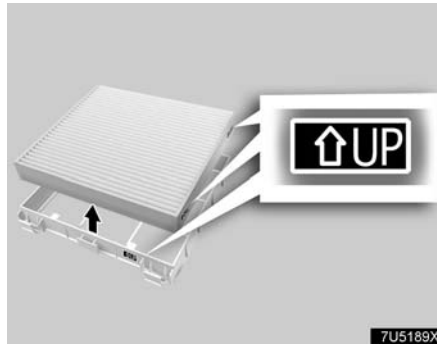


**If the filter is dirty, clean by blowing compressed air through the filter from the downward side.**

Hold the air gun 2 in. (5 cm) from the filter and blow for approximately 2 minutes at 72 psi (500 kPa, 5.0 kgf/cm<sup>2</sup> or bar).

If it is not available, have the filter cleaned by your Lexus dealer.

- **Replacement method**



**Remove the air conditioning filter from the filter case and replace it with a new one.**

The "↑UP" marks shown on the filter and the filter case should be pointing up.

### Checking interval

Inspect and replace the air conditioning filter according to the maintenance schedule. In dusty areas or areas with heavy traffic flow, early replacement may be required. (For scheduled maintenance information, please refer to the "Owner's Manual Supplement/Scheduled Maintenance".)

### If air flow from the vents decreases dramatically

The filter may be clogged. Check the filter and replace if necessary.

#### **NOTICE**

##### ***To prevent damage to the system***

- ***When using the air conditioning system, make sure that a filter is always installed.***
- ***When cleaning the filter, do not clean the filter with water.***

## AIR CONDITIONING

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